

**AMENDMENTS TO THE CLAIMS:**

1. (Currently amended) An isolated and substantially purified DNA sequence comprising SEQ ID NO:3, wherein SEQ ID NO:3 includes at least one variation selected from the group consisting of:

- a T at nucleotide base number 4121 of SEQ ID NO:3;
- a C at nucleotide base number 4621 of SEQ ID NO:3;
- a T at nucleotide base number 4970 of SEQ ID NO:3;
- a C at nucleotide base number 11056 of SEQ ID NO:3; and
- a T at nucleotide base number 12145 of SEQ ID NO:3,

~~or a fragment of SEQ ID NO:3, wherein said fragment includes at least one of said variations and is at least 20 nucleotides in length.~~

- 2. (Cancelled)
- 3. (Cancelled)
- 4. (Cancelled)
- 5. (Previously presented) A hybridization probe comprising the DNA sequence of claim 1 and a detectable label.
- 6. (Cancelled)
- 7. (Cancelled)
- 8. (Cancelled)
- 9. (Cancelled)
- 10. (Cancelled)
- 11. (Cancelled)

12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Currently amended) An isolated host cell ~~A host cell~~ comprising a vector, wherein said vector further comprises ~~a DNA sequence that corresponds to~~ SEQ ID NO: 3.

19. (Cancelled)

20. (Currently amended) The isolated host cell ~~The host cell of claim 18, wherein said DNA sequence SEQ ID NO:3~~ includes one or more of the variations selected from the group consisting of:

a T at nucleotide base number 4121 of SEQ ID NO:3;

a C at nucleotide base number 4621 of SEQ ID NO:3;

a T at nucleotide base number 4970 of SEQ ID NO:3;

a C at nucleotide base number 11056 of SEQ ID NO:3; and

a T at nucleotide base number 12145 of SEQ ID NO:3,

~~or a fragment of said DNA sequence that includes one or more of said variations and is at least 20 nucleotides in length.~~

21. (Cancelled)

22. (Cancelled)

23. (Cancelled)

24. (Cancelled)

25. (Cancelled)

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Cancelled)

30. (Cancelled)

31. (Cancelled)

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)

36. (Cancelled)

37. (Cancelled)

38. (Cancelled)

39. (Cancelled)

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Previously presented) A DNA sequence that is one hundred percent complementary to the DNA sequence of Claim 1.

47. (NEW) A DNA primer sequence consisting of a portion of SEQ ID NO:3 that includes one or more of the variations selected from the group consisting of:

- a T at nucleotide base number 4121 of SEQ ID NO:3;
- a C at nucleotide base number 4621 of SEQ ID NO:3;
- a T at nucleotide base number 4970 of SEQ ID NO:3;
- a C at nucleotide base number 11056 of SEQ ID NO:3; and
- a T at nucleotide base number 12145 of SEQ ID NO:3.

48. (NEW) A DNA primer sequence that is one hundred percent complementary to the DNA primer sequence of Claim 47.

49. (NEW) A DNA probe comprising the DNA sequence of Claim 47 and a detectable label.

50. (NEW) A DNA probe that is one hundred percent complementary to the DNA probe of Claim 49.